200400093

# THE UNIVERD STRAIFS OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Abbott & Gobb, Inc.

MIRECALS, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

DOW: THEREFORE, THIS CERTIFICATE OF PLANT WARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY SEARS: FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROPAGATION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

MUSKMELON (F1)

'S3-1520-XLT'

In Testimonn Murror, I have hereunto set my hand and caused the seal of the Mint Antietn Arctical at the City of Washington, D.C. this seventh day of December, in the year two thousand and five.

Allast

almije

Commissioner

Plant Variety Protection Office Agricultural Marketing Service of Agriculture

	The same same same same same same same sam	eproductions		Form Approved - OMB No. 0581-0056
	U.S. DEPARTMENT OF AGI AGRICULTURAL MARKETIN SCIENCE AND TECHNOLOGY - PLANT VAR	IC SCDVICE	The following statements are made in the Paperwork Reduction Act (PRA)	accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and
	APPLICATION FOR PLANT VARIETY PRI (Instructions and information collection burn	OTECTION CERTIFICATE	Application is required in order to dete (7 U.S.C. 2421). Information is held o	ermine if a plant variety protection certificate is to be issued confidential until certificate is issued (7 U.S.C. 2426),
	Abbott and Cobbit	740 (	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY HAME 53-1520-XLT
	HADOT 1 CARCO (2000 12	2700	ACX-1520 -	1 64
	4. ADDRESS (Street and No., or R.F.D. No., City, State, and	ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
	P.O. BOX 307		(215)	PVPO NUMBER
	Feaster ville, PA	9007.0307	24.5 - 6666 6. FAX (include area code)	2004 0008
	. , , , ,	7033.03-1	(215)	2004 00093 FILING DATE
	7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FOR		245-9043 9. DATE OF INCORPORATION	FILING DATE
	ORGANIZATION (corporation, partnership, association, etc.		···	Feb. 2, 2004
	CO-PO-ration  10. NAME AND ADDRESS OF OWNER REPRESENTATIVES	<u> PA</u>	0/102/1972	<u>(                                    </u>
	A H A H L	S) TO SERVE IN THIS APPLICATION. (F)		F FILING AND EXAMINATION FEES: E \$ 3652.00
	Arthur Abbott,	•	}	[ S ]
	P.O. BOX 3	07		R DATE 2/2/04
	Feastaville, PA	19053-03	307	C CERTIFICATION FEE:
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		682.00
				E DATE 9/16/05
	11. TELEPHONE (Include area code)	12. FAX (include area code)	13. E-MAIL	14. CROP KIND (Common Name)
	(215) 24 <b>5</b> -6666	(215) 245-9043	Summersweet Vegs & AoL. Com.	Cantaloupe
	(215) 245-6666 18. GENUS AND SPECIES NAME OF CROP	(-0) 2/30/10/15	16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION
	Cucumis melo L.			HYBRID?
			<u>Cucurbitacene</u>	YES □ NO
	<ol> <li>CHECK APPROPRIATE BOX FOR EACH ATTACHMENT S (Follow instructions on reverse)</li> </ol>	SUBMITTED	19. DOES THE OWNER SPECIFY THAT CERTIFIED SEED? See Section 8	SEED OF THIS VARIETY BE SOLD AS A CLASS OF 13(a) of the Plant Variety Protection Act)
	a. X Exhibit A. Origin and Breeding History of the Varie	ły	☐ YES (If "yes", answer items :	, ,
	b. Exhibit B. Statement of Distinctness		20. DOES THE OWNER SPECIFY THAT VARIETY BE LIMITED AS TO NUMBE	
	<ul> <li>c.</li></ul>	, dia		·
	e. Exhibit E. Statement of the Basis of the Owner's O	·		OUNDATION REGISTERED CERTIFIED
	f. K Voucher Sample (2,500 viable untreated seeds or,	for tuber propagated varieties.	21. DOES THE OWNER SPECIFY THAT VARIETY BE LIMITED AS TO NUMBE	SEED OF THIS YES TO NO PROPERTY OF GENERATIONS?
	verification that tissue culture will be deposited and repository)	maintained in an approved public	IF YES, SPECIFY THE NUMBER 1,2,3	3, etc. FOR EACH CLASS.
<b>h</b>	g. Filling and Examination Fee (\$3,652), made payable States* (Mail to the Plant Variety Protection Office)	e to "Treasurer of the United	FOUNDATION REGISTER	
9			(If additional explanation is necessary,	please use the space indicated on the reverse.)
× 2	<ol> <li>HAS THE VARIETY (INCLUDING ANY HARVESTED MATE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANS OTHER COUNTRIES?</li> </ol>	RIAL) OR A HYBRID PRODUCED SFERRED, OR USED IN THE U.S. OR	23. IS THE VARIETY OR ANY COMPONE PROPERTY RIGHT (PLANT BREEDE	ENT OF THE VARIETY PROTECTED BY INTELLECTUAL R'S RIGHT OR PATENT!?
2,5	☐ YES  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE	NO DISPOSITION TRANSCES OF USE	X YES	□ NO
<i>.</i> 9 -	FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Pie	ase use space indicated on reverse.)	IF YES, PLEASE GIVE COUNTRY, DA REFERENCE NUMBER. (Please use s	TE OF FILING OR ISSUANCE AND ASSIGNED space indicated on reverse.)
2	<ol> <li>The owners declare that a viable sample of basic seed of too a tuber propagated variety a tissue culture will be depo</li> </ol>	he variety has been furnished with applica sited in a public repository and maintaine	ation and will be replenished upon request in ed for the duration of the certificate.	accordance with such regulations as may be applicable, or
	The undersigned owner(s) is(are) the owner of this sexuall and is entitled to protection under the provisions of Section	y reproduced or tuber proposed at a to		distinct, uniform, and stable as required in Section 42,
	Owner(s) is(are) informed that false representation herein		nalties.	
s	IGNATURE OF OWNER	111	SIGNATURE OF OWNER	
	( Marine Cle	MOX Pres.		
N	AME (Please print or type)		NAME (Please print or type)	
	ARTHUR ABB	ott	,	
C#	PACITY OR TITLE	DATE	CAPACITY OR TITLE	DAYE
_	President	11/15/07		DATE

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filling fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

#### Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
  (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpfut, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generalions that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filling or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).) The female parent, US24, is protected in the USA by PVP Certificate No 2000 00012, issued on April 29,2003.

A PVP application was filed in the USA for the male parent, SLA-NI, (Appl. No. 200300298), filed on July 29, 2003

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/isg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is estimated to average 3.0 hours per response, including the time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marrial or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W. Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and To the a comparation uncertaintage, while USDA, unbount, which of Cara regime, needs occurred, remains underlying TDD). USDA is an equal opportunity provides and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolved.



ABBOTT & COBB, INC.

P.O. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-6666 • FAX (215) 245-9043

2004 00093

#### EXHIBIT A

53-1520-XLT

#### ORIGIN AND BREEDING HISTORY OF ACX-1520-PS-XLT

53-1520-XLT

ACX-1520-PS-XLT, is a personal size (PS), heterozygous Extended Shelf Life (XLT) first generation hybrid cantaloupe. It is characterized by an andromonoecious flowering habit, small and perfectly round fruits, and a quantitatively measured, extended post harvest shelf life. The parents of ACX-PS-XLT are WS24 (female parent), and 'SLA-NS' (male parent).

#### **Breeding History of female Parent WS24**

53-1520-XLT

WS24, the female parent of ACX-1520-PS-XLT, has been fully described in a Plant Variety protection Application No 200000012. A PVP certificate was issued on April 29, 2003. WS24 is a western shipper inbred with the andromonoecious flowering habit. It is fully netted and has non-sutured round fruits with small, closed cavity. The fruits abscise when ripe.

#### **Breeding History of Male Parent SLA-NS**

53-1520-XLT

SLA-NS, the male parent of ACX-1520-PS-XLT, has been fully described in a Plant Variety Protection Application No 200300298, filed on July 29, 2003. SLA-NS is homozygous for the Extended Shelf Life character (XLT). It has small, round fruits that are fully netted, and



**ABBOTT & COBB, INC.** P.O. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-6666 • FAX (215) 245-9043

2004 00093

non-sutured. The fruits have small closed cavity, and they abscise only when over ripe.

Extensive field trials, over four years period, in California, Texas, Georgia, Indiana, and Mexico, have consistently shown ACX-1520-PS- S3-/520-XLT to be novel, uniform and stable F1 hybrid.



**ABBOTT & COBB, INC.** P.O. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-6666 • FAX (215) 245-9043

2004 00093

## **EXHIBIT A: SELECTION CRITERIA**

53-1520-XLT of <del>ACX-1520</del>-

The selection criteria used for the development of ACX-1520-PS-XLT were as follows:

- 1- A personal size melon, with Extended Shelf Life (XLT).
- 2- Small, round fruits, averaging around 1200 grams each.
- 3- Fully netted, non-sutured fruits.
- 4- Small, closed seed cavity.
- 5- A minimum Brix reading of 13 %.
- 6- Resistance to powdery mildew race1 and Fusarium wilt race 2.
- 7- Resistance to the black melon aphid ( Aphis gossypii Glover ).



# DRAFT Exhibit A Form

F!	e the genealogy (back to and including public and commercial varieties, lines, or clones use the second of the sec	ent is W524, parent is	
2. Give the	details of subsequent stages of selection and multiplication.		
Year	Detail of Stage	Selection Criteria	
1999	hand cross first made	Phease See	
2000	limited hybrid seed increase of Trials	attached	
2001	multi-location Trials		
2002	multi-location trials		
2003	limited hybrid increase and onelli- location trial		
		•	
3a. Is the variety uniform? Lyes _No How did you test for uniformity? Mullip location Thirds own a 4 years puiced showed that Acx. 1520-ps-2017 is uniform.			
3b. Is the va	riety stable? Yes No		
How did you test for stability? Over how many generations? The same hyphid cross was done in 1999, 2000, and 2003. Resulting hyphids was rested in multi-locations over 4 year paid. In all Trials and Docations ACX-1520-PS-XCT Proved To be Stable			
4. Are geneti	c variants observed or expected during reproduction and multiplication?Yes	∠ No	
If yes, state he	ow these variants may be identified, their type and frequency.		
NO	genetic Variants have been or	bserved in	
AC	X. 1520- PS- XLT 53-1520-XLT		

# DRAFT Exhibit B Form \$3-1520-XLT Based on overall morphology, ACX\_1520 Applicant's new variety is most similar to

Based on overall mor	phology, ACX-13-20	is most similar to TAM	valde
53-1520-XLT	Applicant's new variety		ilar comparison variety(ies)
	st clearly differs from		
Applicant's new variety	Most:	similar comparison variety(ies)	ne following traits:
	the value of that trait for each variety in t ace in Support of Variety Distinctness, av	the comparison. Attach appropriate sup railable from the PVP Office or website)	porting evidence (see the
1. Qualitative traits: (Eg. Leaf Pubescence	Applicant's New Variety heavy pubescence \$3-1520-	1s Comparison Variety	2
Sutures on			
FRuit	NOT. Surfured	Slightly Sutured	See
		Suhred	Photo
2. Color traits: (Eg. Leaf Color	Dark Green (5GY 3/4)	Light Green (2.5GY 8/10)	Munsell Color Chart)
3. Quantitative traits: (Eg. Plant Height	200 cm +/- 10 cm (N=25)	250 cm +/- 15 cm (N=25)	statistics attached)
		•	
4. Other:			
	Resistant To	Susceptible	The female of ACX-1520
Aphid	The black modern	To The black	has The
Resistance	Aphid	Melon Aphid	Aphid-res
			gone (3)
	·		"

Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present representations of the comparison varieties.



ABBOTT & COBB, INC.

P.O. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-6666 • FAX (215) 245-9043 www.acseed.com 200400093

#### EXHIBIT A: S3-1520-XLT

#### SCREENING FOR RESISTANCE TO THE MELON APHID

All screening for resistance to the melon aphid (Aphis gosypii) was done under field conditions. The melon aphid is the most common species of aphids colonizing muskmelon in our breeding plots near Davis, CA. Two checks were included in all screening tests. Topmark, a susceptible check, and AR5, a resistant check. The test plots were sprayed only with the insecticides Sevin, which does control the beetles and other coleoptera, but not aphids. Aphid-resistant plants were selected based on the following criteria:

- a) the aphid population was very low, only about 10% that of susceptible checks.
- b) Absence of leaf curling, and other leaf mal-formation caused by aphid feeding.
- c) Absence of "moldy soot " on the fruits of putative resistant plants. Mold growth is caused by exudates from aphids.

In all tests, AR5, both the fruits and the foliar parts remained free of symptoms caused by excessive aphid feedings. There was no "moldy soot" on the mature fruits.



200400093

**ABBOTT & COBB, INC.**P.O. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-9686 • FAX (215) 245-9043 www.assed.com

Topmark, on the other hand, showed severe symptoms, caused by aphid feedings, and the mature fruits were fully covered with "moldy soot". In tests conducted during 2003 and 2004, the fruits of S3-1520-XLT remained free of "moldy soot", whereas fruits of susceptible varietes, such as, Topmark, were covered with "moldy soot".

WS24, the female parent of S3-1520-XLT is resistant to the black melon aphid (PVP certificate No 200000012). This resistance was derived from USDA breeding line AR 5 (McCreight et al). The authors found the Aphid resistance to be dominant and possibly controlled by two genes.

#### Literature Cited:

J.D. McCreight; A.N. Kishaba; and G.W. Bohn. 1984. AR Hale,s Best Jumbo, AR 5, and AR Topmark: Melon Aphid-resistant Muskmelon Breeding Lines. Hortscience 19 (2):309-310

REPRISOUCE LOCALLY, Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055
According to the Peperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is distinct information collection in the standard to average 1.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audictage, etc.) should contact USDA's TARGET Center at 202-720-2500 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARI	ETY
Muskmelon (Cucumis melo L.)	200400093
NAME OF APPLICANT (S)	VARIETY NAME S3-1520-XLT
Abbott and Cobb, Inc.	TEMPORARY OR EXPERIMENTAL DESIGNATION
ADDRESS (Street and No. or RD No., City, State, and Zip Code)	
p. o. Box 307	FOR OFFICIAL USE ONLY
Feasterville, PA 19053	
PLEASE READ ALL INSTRUCTIONS CAREFULLY:	
Place the appropriate number that describes the varietal characters typical of this variety in the boxes below. Place a zero in the first box (e.g. $\begin{bmatrix} 0 & 8 & 9 \\ \end{bmatrix}$ or $\begin{bmatrix} 0 & 9 \\ \end{bmatrix}$ ) when number is either 99 or less or 9 or less.	
1. TYPE:	
1 = Persian 2 = Honey Dew 3 = Casaba 4 = Crenshaw 5 = Common or Sumr 6 = Other	ner
2. AREA OF BEST ADAPTATION IN U.S.A.:	
4 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
1 = Southeast 2 = Northeast/North Central 3 = Southwest 4 = Most Areas	
3. MATURITY: (From Seeding to Harvest)	
0 8 2 Days	
1 = Fordhook Gem (Early)	
// 3 = Honey Dew (Late)	3.1
No. Days Later Than	<u> </u>
4. PLANT:	
1 = Andromonoecious 2 = Monoecious 3 = Gynoecius 4 = Other	
1	
1 = Vine 2 = Semi-bush 3 = Bush	
5. LEAF: (Mature Blade of Third Leaf)	
Shape: 1 = Orbicular 2 = Ovate 3 = Reniform	
1 = Not Lobed 2 = Shallowly Lobed 3 = Deeply Lobed	
1 = Light Green (Honey Dew) 2 = Medium Green 3 = Dark Green (Rio Gold)	
105 mm Length [35] mm Width	
Surface: 1 = Pubescent 2 = Glabrous 3 = Scabrous	

	2004 00093 Exhibit C (Worker
6. FRUIT:	(at Edible Maturity):
13	cm Length II3 cm Diameter II200 gm Weight
3	Shape: 1 = Oblate 2 = Oral 3 = round 4 = Elongate-cylindrical 5 = Spindle 6 = Acom
2	Surface: 1 = Smooth 2 = Netted 3 = Corrugated 4 = Warted
2	Blossom Scar: 1 = Obscure 2 = Conspicuous
2 2 0	Ribs: 1 = Absent 2 = Present
0	No. Ribs per Fruit mm Rib Width at Medial Ribs: 1 = Smooth 2 = Netted
	Sutures:
	1 = Shallow (Golden Delight) 2 = Medium 3 = Deep (Hackensack)
	1 = Smooth 2 = Netted
	Shipping Quality: 1 = Poor (Home Garden) 2 = Fair (Short Distance Shipping) 3 = Excellent (Long Distance Shipping)
2	Fruit Abscise: 1 = When Ripe. 2 = When Overripe 3 = Do Not Abciss
7. RIND NET	
3	
2	
2	Distribution: 1 = Spotty 2 = Covers Entire Fruit  Courseness: 1 = Fine 2 = Medium Coarse 3 = Very Coarse
3	- Voly Coulds
Ť	Intertacting: 1 = None 2 = Some 3 = Complete
	Interstices: 1 = Shallow 2 = Medium Deep 3 = Deep
8. RIND TEX	TURE;
3	1 = Soft 2 = Firm 3 = Hard
9. RIND COL	îr.
	The state of the s
01 = V	Weite 22 O
09 ≈ B	
00	1 2 Primary Color Mottling Color
00	0 3 Net Color Furrow (Suture) Color
Pind Color (A	Full Make of a
Allia Color (A	LEvil Maturity)
	O Z Primary Color Mottling Color
	O   Z   Net Color   Furrow (Suture) Color
10. FLESH ( <u>at</u>	Edible Maturity):
Colors: (Selec	t two when necessary, i.e. Creamy Yellow 2 3 )
	M = Whita 02 = Cream 03 = Yellow 04 = Green 05 = Orange 06 = Salmon 07 = Pink 8 = Other (Specify)
०ड ०	Color Near Cavity OS Color in Center OS Color Near Rind
13 F	Refractometer % In Soluable Solids (Center of Flesh)
12 ,	Soluable Solids for Check Variety (Specify Variety)
	roma: 1 = Absent 2 = Faint 3 = Strong

SY-470-38 (04-03) designed by the Plant Variety Pr

*** <u>-</u>			2004 0009 Exhibit C (Muskina
10. FLESH (continued):			CANDRO INCOME
O ( Flavor: 1 = Mild	2 = Somewhat Spicy 3 = Very	Spicy	•
11. SEED CAVITY:	311		
g o mm Length	40 mm Width		
Shape in X-Section	1 = Circular 2 = Triangular		
12. SEEDS:		·	
425 No. per Fruit	25 gm per 1,000		
	= Not Tested, 1 = Susceptible, 2 = Resi	stant)	
Bacterial Wilt	Root Rot	2 Crown Blight	Melon Rust
Powdery Mildew -	R ( Verticillum Wilt	2 Sulphur Bum	Ø Scab
Watermelon Mosaic	O Downy Mildew	Eusarium Wilt R2	Root Know (Nematode)
Anthracnose	O Cucumber Mosiac	O Squash Mosaic	Other
State Genus, Species, and Races w	hen known, under item 16.	Other	Other
14. INSECT RESISTANCE: (0 ≈ No	ot Tested, 1 = Susceptible, 2 = Resistar	nt)	
2 Aphid	Pickle Worm	O Darling Ground-Beetle	Banded Cucumber Beetle
Mite	Western Spotted Cucumber Beetle	t Melon Leafhopper	Other (Specify)
O Melon worm		Melon Leafminer	
	Vvestern Striped Cucumber Beetle	I welon Ceamarer	
15. INDICATE A VARIETY THAT M	OST CLOSELY RESEMBLES THAT S	SUBMITTED FOR THE FOLLO	WING CHARACTERISTICS:
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Days Maturity	WS24	Fruit Shape	Tamuvalde
Plant Vigor	SLA-NS	Rind Color	ACX - 9201 MAY
Plant Habit	SLA-NS	Flesh Aroma	ACX-92 01 MAY
ruit Netting	SLA -NS	Flesh Flavor	ACX-9201 MAX
ruit Size	TAMUVAIDE	Flesh Color	ACX-9201MA

16. ADDITIONAL INFORMATION AND COMMENTS:



ABBOTT & COBB, INC. P.D. BOX 307 • FEASTERVILLE, PA 19053-0307 (215) 245-6666 • FAX (215) 245-9043

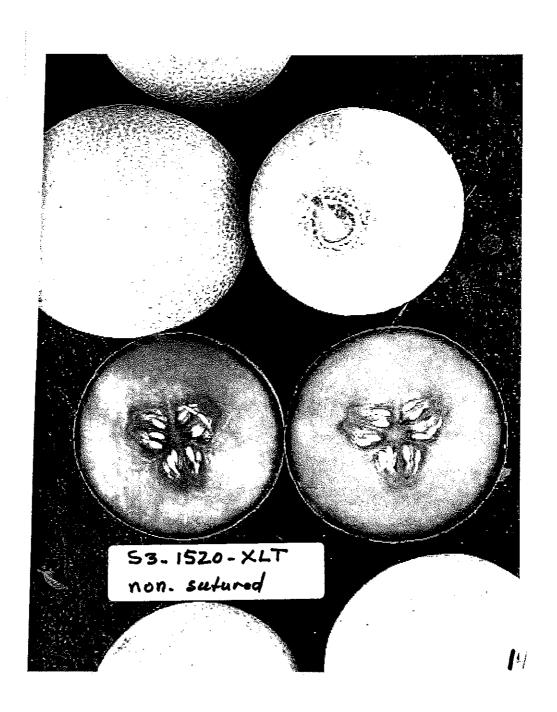
2004 00093

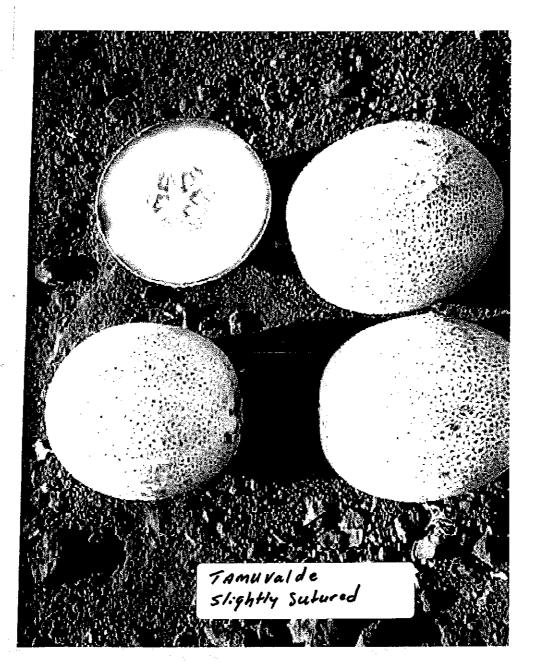
53-1520-XLT EXHIBIT D: ACX-1520-PS-XLT

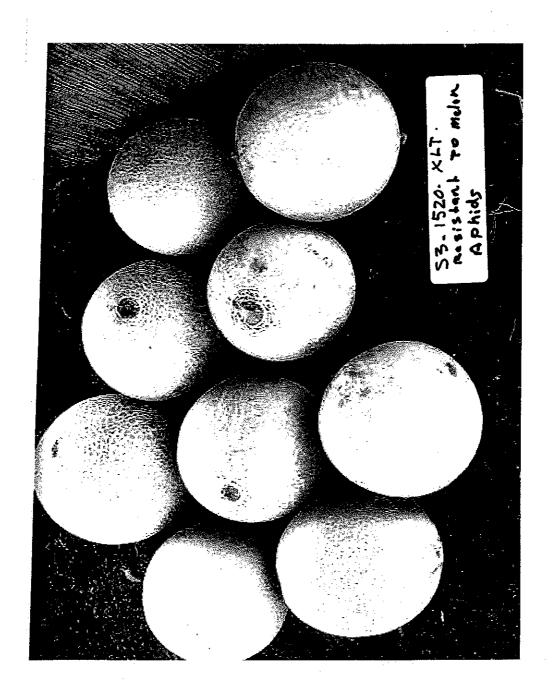
Following items are included as part of Exhibit D:

1- Three digital photos of ACX-1520-PS-XLT. 53-1520-XLT
2- One Digital photo of TamuValde











Ÿ



REPRODUCE LOCALLY, include form number and edition date on a	di reproductions.	FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is iss	2421). The information is held ued (7 U.S.C. 2426).
1. NAME OF APPLICANT(S) Abbott and Cobb, Due.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	S3-1520-XLT
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) $\rho \cdot o \cdot s \circ x \qquad 30.7$	5. TELEPHONE (Include area code) (2.15)	6. FAX (Include area code)
Feasterville, PA 19053	245-6666 7. PVPO NUMBER 2004 000	245-9043 093
8. Does the applicant own all rights to the variety? Mark an "X" in the	1 e appropriate block. If no, please expli	ain. Yes No
9. Is the applicant (individual or company) a U.S. national or a U.S. t	pased company? If no, give name of c	ountry. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by Individual(s), is	(are) the original owner(s) a U.S. Nation  NO If no, give name of count	
b. If the original rights to variety were owned by a company(les), YES	is (are) the original owner(s) a U.S. ba	
11. Additional explanation on ownership (Trace ownership from origin Dr. Hasib S. Humaydan, a for is the breeder of 53-152 selection work was done yearing no claims of owners	ulltime employee c .o-xLT. most of near Davis, CA	of abboth and cobb, The breeding and . Dr. Humaydan
Abbott and Cobb, Inc. is	the sole owner	of 53_1520-XU
Abbott and Cobb, Inc. is	the sole owner	of 53_1520-XU
Abbott and Cobb, Inc. is	The Sole owner	of 53_1520-x4
Abboth and Cobb, Inc. is PLEASE NOTE: Plant variety protection can only be afforded to the owners (not licens	The Sole owner  ees) who meet the following criteria: erson must be a U.S. national, national	of S3_ (\$20-XL)
Abboth and Cobb, Tuc. is  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licens  1. If the rights to the variety are owned by the original breeder, that protection of a country which affords similar protection to nationals of	the Sole owner  sees) who meet the following criteria: erson must be a U.S. national, national the U.S. for the same genus and spec- red the original breeder(s), the compan-	of \$3_ (\$20 - XL)  of a UPOV member country, or es.  r must be U.S. based, owned by
Abboth and Cobb, Tuc. is  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licens  1. If the rights to the variety are owned by the original breeder, that pre  national of a country which affords similar protection to nationals of  2. If the rights to the variety are owned by the company which employ  nationals of a UPOV member country, or owned by nationals of a  genus and species.	the Sole owner  ees) who meet the following criteria: erson must be a U.S. national, national if the U.S. for the same genus and spec red the original breeder(s), the company country which affords similar protection	of a UPOV member country, or ees.  must be U.S. based, owned by to nationals of the U.S. for the same
Abboth and Cobb, Tuc. is  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licens  1. If the rights to the variety are owned by the original breeder, that predictional of a country which affords similar protection to nationals of  2. If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a company and species.  3. If the applicant is an owner who is not the original owner, both the office original breeder/owner may be the individual or company who directions.	the Sole owner  sees) who meet the following criteria: erson must be a U.S. national, national the U.S. for the same genus and spec red the original breeder(s), the company bountry which affords similar protection original owner and the applicant must n	of a UPOV member country, or es.  y must be U.S. based, owned by to nationals of the U.S. for the same
Abboth and Cobb, Tuc. is  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licens  1. If the rights to the variety are owned by the original breeder, that predictional of a country which affords similar protection to nationals of  2. If the rights to the variety are owned by the company which emptoy nationals of a UPOV member country, or owned by nationals of a cogenus and species.  3. If the applicant is an owner who is not the original owner, both the original breeder/owner may be the individual or company who direct for definitions.  **According to the Papernock Reduction Act of 1995, an agency may not conduct or appears control amother. The vaid OMB control mather to this information collection to the for reviewing the flustrations, swenting acting delica sources, gathering as	the Sole owner.  The Sole owner.  The Sole owner.  The Sole owner.  The Sole owner of the Sole owner.  The U.S. for the same genus and spectred the original breeder(s), the companyountry which affords similar protection original owner and the applicant must needed the final breeding. See Section of the time required to expecte the information collection of the time required to complete the information collection.	of \$3_ (\$20 - XU)  of a UPOV member country, or es.  y must be U.S. based, owned by to nationals of the U.S. for the same neet one of the above criteria.  U(a)(2) of the Plant Variety Protection of Information unless it displays a valid CMB also be estimated to average 0.1 hour par response, realishing the cheditor of Information.
Abboth and Cobb, Tuc. is  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licens  1. If the rights to the variety are owned by the original breeder, that prational of a country which affords similar protection to nationals of  2. If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a country.	the Sole owner.  The Sole owner.  The Sole owner.  The Sole owner.  The Sole owner of the Sole owner.  The U.S. for the same genus and spectred the original breeder(s), the companyountry which affords similar protection original owner and the applicant must needed the final breeding. See Section of the time required to expecte the information collection of the time required to complete the information collection.	of \$3_ (\$20 - XU)  of a UPOV member country, or es.  y must be U.S. based, owned by to nationals of the U.S. for the same need one of the above criteria.  U(a)(2) of the Plant Variety Protection of information unless it displays a valid CMB aloa to estimated its everage 0.1 hour per response, realizations of excellence of the mediator.